

Message Text

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SUBJECT: SEMINAR/MINI-EXHIBIT ON EQUIPMENT AND TECHNOLOGY FOR ROLLING

MILLS AND RELATED OPERATIONS IN THE STEEL INDUSTRY,

DEC 6-10, 1976

REF: USDOC 13268

1. MINISTRY OF FERROUS METALLURGY HAS GIVEN US LIST OF SPECIAL-
INTEREST THEMES FOR SUBJECT SEMINAR. INFORMAL TRANSLATION FOLLOWS:

A. STATE-OF-THE-ART EQUIPMENT FOR ROLLING MILLS:

- PROSPECTIVE SOLUTIONS FOR THE CREATION OF HIGH-PRODUCTION
COMBINED LINES, INCLUDING INSTALLATIONS FOR CONTINUOUS PICKLING
AND CONTINUOUS COLD ROLLING MILLS.

- CURRENT DEVELOPMENTS IN EQUIPMENT FOR HIGH PRODUCTIVITY
HOT ROLLING OF WIDE-GAUGE STRIP STEEL.

- ROLLING EQUIPMENT AND HYDRAULICALLY CONTROLLED STAND
MECHANISMS. - BASIC DIRECTIONS IN THE DESIGN OF EQUIPMENT FOR THE
FINISHING, PICKLIN AND COATING WITH ZINC, PLASTICS, ETC. OF COLD
ROLLED STRIP STEEL.

- AUTOMATION EQUIPMENT AND SYSTEMS FOR THE CONTROL AND SORTING
OF COLD ROLLED STRIPS AND SHEETS IN THE PROCESS OF CUTTING AND
INSPECTION FOR SUFACE DEFECTS AND MECHANICAL PROPERTIES.

- MILL EQUIPMENT, IN PARTICULAR HYDRAULICALLY CONTROLLED
STAND EQUIPMENT.

-ROLL TEMPERING MACHINES.

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- THICK SHEET MILLS AND EQUIPMENT FOR HEAT TREATING AND

STORAGE OF THICK SHEETS.

- CONSTRUCTION DETAILS, DESIGN AND PRACTICAL EXPERIENCE CONCERNING THE AUTOMATION EQUIPMENT AND SYSTEMS USED WITH THE FIVE-STAND CONTINUOUS ROLLING MILL AT THE WIRETON (PHONETIC) PLANT OF THE NATIONAL STEEL COMPANY AND SIMILAR MILLS AT OTHER PLANTS.

- CURRENT DIRECTIONS IN THE DEVELOPMENT OF EQUIPMENT FOR HIGH-PRODUCTION HOT ROLLING MILLS FOR WIDE-GAUGE STRIP.

- STATE-OF-THE-ART MULTI-ROLL MILLS FOR COLD ROLLING AND PROSPECTS FOR THEIR DEVELOPMENT.

- TYPES OF PLANETARY MILLS AND RECOMMENDATIONS FOR THEIR APPLICATION.

- TYPES OF TWENTY-ROLL MILLS WITH REPLACEABLE MAGAZINES FOR THE ROLLING OF STEEL PLATE IN A WIDE RANGE OF THICKNESSES.

- THERMAL REGULATION OF THE ROLLER SYSTEM IN A TWENTY-ROLL MILL.

- AUTOMATIC SYSTEMS FOR THE REGULATION OF THE CROSS-SECTION OF STRIP STEEL IN A TWENTY-ROLL MILL.

- SYSTEMS FOR THE REMOVAL OF LUBRICANTS FROM THE STRIP IN THE ROLLING PROCESS IN A TWENTY-ROLL MILL.

B. DESIGN AND CONSTRUCTION OF REHEATING FURNACES AND WALKING BEAM FURNACES.

- QUALITY STANDARDS FOR REHEATING FURNACES IN SECTION AND PLATE ROLLING MILLS; FURNACES WITH WALKING BEAMS (OVERHEAD HEATING), WITH WALKING BEAMS (OVERHEAD AND FLOOR HEATING) AND PUSH-FEED FURNACES.

- LATEST DEVELOPMENTS IN THE DESIGN OF FURNACES WITH WALKING BEAMS (OVERHEAD AND FLOOR HEATING) FOR PLATE AND SECTION MILLS.

- THE POSSIBILITY AND ADVISABILITY OF USING FURNACES WITH WALKING BEAMS FOR THE HEAT TREATING OF STEEL PLATE (ANNEALING, NORMALIZATION AND HARDENING).

- THE CHOICE OF REHEATING FURNACES FROM THE STANDPOINT OF REDUCING DECARBONIZATION IN REHEATING; THE ADVISABILITY OF HEAT TREATMENT OF SECTION ROLLED STEEL MADE FROM DECARBONIZED STEELS IN FURNACES WITH PROTECTIVE ATMOSPHERES AND CHEMICAL-HEAT TREATMENT TO REDUCE THE DECARBONIZED LAYER.

- LATEST DEVELOPMENTS IN THE USE OF NON-OXYGEN OR LOW OXYGEN HEATING IN MILL REHEATING FURNACES.

- THE EFFECTIVENESS OF OVERHEAD HEATING IN REHEATING AND THERMAL FURNACES AND BURNER CONSTRUCTION FOR OVERHEAD HEATING.

- LATEST DEVELOPMENTS IN THE CONSTRUCTION OF FURNACE ELEMENTS, UNCLASSIFIED

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RIDERS FOR FLOOR PIPES IN OVENS WITH WALKING BEAMS AND PUSH-FEED FURNACES, FURNACE ROLLERS FOR DRAWING FURNACES, ROLLERS FOR FURNACES WIDER THAN FOUR METERS, RADIATING PIPES AND HERMETIC SEALERS FOR THE ENTRANCE AND EXIT OF PLATE IN DRAWING FURNACES.

- NEW DEVELOPMENTS IN THE USE OF GUNNING MASS PRODUCED FROM FIBEROUS MATERIALS FOR MELTING CHAMBER LININGS AND EXHAUST SYSTEMS OF REHEATING AND HEAT TREATMENT FURNACES, IN PARTICULAR THE ISOLATION OF FLOOR PIPES IN FURNACES WITH WALKING

BEAMS AND PUSH-FEED FURNACES AND THE LINING OF MOVING AND STATION-ARY BEAMS IN FURNACES WITH WALKING BEAMS.

- NEW MODELS OF RECUPERATORS AND PLANS FOR THE UTILIZATION OF HEAT PRODUCED BY THE PRODUCTS OF COMBUSTION.

- THE EFFECTIVENESS OF ADDING OXYGEN TO THE AIR FED INTO REHEATING FURNACES.

- LATEST DIRECTIONS IN THE DESIGN OF HEAT TREATING FURNACES.

C. AUTOMATION OF ROLLING MILL PRODUCTION

- PLANT-WIDE AUTOMATION SYSTEMS FOR HOT AND COLD ROLLING MILLS WITH ELECTRONIC COMPUTERS, INCLUDING CONTROL SYSTEMS FOR RE-HEATING OVENS, AUTOMATED SYSTEMS TO CONTROL THE THICKNESS AND CUTTING OF ROLLED STEEL.

- CONTROL SYSTEMS FOR COLD ROLLING MILLS AND THE FINISHING OF STRIPS AND SHEETS.

2. MINISTRY RESPONSE ALSO NOTED THAT PARTICIPATION OF FOLLOWING FIRMS WOULD BE PARTICULARLY WELCOME:

A. STATE-OF-THE-ART EQUIPMENT FOR ROLLING MILLS:

BLAW-KNOX, MESTA, WEAN UNITED, DRIVER, AND SENDZIMIR (PHONETIC).

B. DESIGN AND CONTRUCTION OF REHEATING FURNACES AND WALKING BEAM FURNACES: SURFACE COMBUSTION DIVISION OF MIDLAND-ROSS AND LOFTUS ENGINEERING.

C. AUTOMATION OF ROLLING MILL PRODUCTION: GENERAL ELECTRIC, INDUSTRIAL NUCLEONICS AND WESTINGHOUSE.

FOREIGN RELATIONS DEPARTMENT OFFICIAL STRESSES, HOWEVER, THAT FIRM LISTING WAS NOT INTENDED TO BE EXCLUSIVE AND THAT MINISTRY WOULD BE INTERESTED IN ANY COMPANY IN FIELD OFFERING STATE-OF-ART EQUIPMENT AND TECHNOLOGY.

3. TO HELP RECRUIT THIS EVENT, COMMERCIAL OFFICE HAS ALREADY CONTACTED FOLLOWING FIRMS AND WOULD APPRECIATE BEWT FOLLOW-UP AS INDICATED BELOW:

A. PULLMAN: WE HAVE GIVEN COPIES OF THE MINISTRY

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RESPONSE TO LOCAL PULLMAN OFFICE, WHICH IS RECOMMENDING PARTICIPATION BY PULLMAN-SWINDELL AND ITS CLIENT MESTA. SUGGEST BEWT FOLLOW UP WITH TELEPHONE CALL TO ROBERT MORRIS, ACCOUNT MANAGER, PULLMAN-SWINDELL, TELEPHONE (412) 562-7584.

B. AETNA-STANDARD AND BLAW-KNOX: COMOFF SPOKE LAST WEEK WITH J.E. HOUGH, PRESIDENT OF AETNA-STANDARD, WHO EXPRESSED STRONG INTEREST IN PARTICIPATION ON BEHALF OF HIS OWN FIRM AND BLAW-KNOX, ITS SISTER COMPANY. WE ARE TELEXING MINISTRY'S INTERESTS TO HOUGH AND SUGGEST BEWT FOLLOW UP WITH TELEPHONE CALL (TEL:412-758-4511). HOUGH SAID BLAW-KNOX COULD LIVE WITH MESTA, A HEAD-TO-HEAD COMPETITOR

, BUT WOULD NOT LOOK FAVORABLY ON PARTICIPATION IF WEAN-UNITED, ANOTHER COMPETITOR, WAS ALSO RECRUITED. HE SAW NO PROBLEM, HOWEVER, WITH PARTICIPATION OF WATERBURY-FARREL, WHICH MANUFACTURES EQUIPMENT FOR SPECIALTY STEEL MILLS AND THUS IS NOT IN DIRECT COMPETITION. ASKED

ABOUT OTHER CANDIDATES, HE MENTIONED COMBUSTION ENGINEERING, LEE WILSON AND SALEM IN FIELD OF REHEATING FURNACES AND GENERAL ELECTRIC FOR CONTROLS.

C. GENERAL ELECTRIC: COMOFF HAS SENT COPY OF MINISTRY RESPONSE TO LOCAL GE OFFICE FOR TRANSMITTAL TO WESTERN EUROPEAN REGIONAL OFFICE. NO BEWT FOLLOW-UP INDICATED AT THIS TIME.

D. ALLEN-BRADLEY: SUGGEST BEWT CONTACT JEFFREY A. BANASZYNSKI, SALES ENGINEER, BLOOMFIELD, N.J., TEL (201) 338-4600, WITH WHOM COMOFF SPOKE IN JULY. IF TELEX MESSAGE FROM HERE WOULD HELP, PLEASE ADVISE.

E. WESTINGHOUSE: COMMERCIAL OFFICE IS SENDING TELEX TO WALTER S. MAKUSH, WESTINGHOUSE, PITTSBURGH, PA. (NEW TELEPHONE UNKNOWN) WHO IS IN CHARGE OF SOVIET MARKET. SUGGEST BEWT FOLLOW-UP WITH PHONE CALL.

F. HEWLETT-PACKARD: LOCAL H-P REP HAS TAKEN INFO ON SEMINAR TO WESTERN EUROPE HQ. NO BEWT ACTION NECESSARY FOR THE PRESENT.

G. HONEYWELL: LOCAL REP FORWARDING MINISTRY RESPONSE TO HEADQUARTERS. NO BEWT ACTION REQUIRED AT THIS TIME.

4. MINISTRY RESPONSE HAS ALREADY BROADENED THEME TO INCLUDE RE-HEATING AND HEAT TREATMENT FURNACES, AND MINISTRY HAS ASSURED US THAT INCLUSION OF PROCESSING LINES (E.G. TUBE MILL EQUIPMENT) WOULD ALSO BE APPROPRIATE. IN ADDITION TO COMPANIES NOTED PARA 3 ABOVE, THEREFORE, SUGGEST BEWT CONTACT REMAINING FIRMS ON MINISTRY LIST, THOSE SUGGESTED BY HOUGH AND THEN OTHER FIRMS IN THESE PRODUCT UNCLASSIFIED

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CATEGORIES. WE WOULD ONLY CAUTION AGAINST OVERSTACKING FIRMS WITH TOO MANY COMPETITORS FROM ONE PRODUCT AREA. FOR GUIDANCE BEWT MAY WISH TO CONTACT MR. FRANK BRANTLEY, CHIEF, FERROUS METALLURGY DIVISION, U.S. BUREAU OF MINES, WHO RECENTLY RETURNED FROM SOVIET UNION. IF TELEX FROM MOSCOW WOULD HELP SWING WAVERING FIRMS INTO SEMINAR, PLEASE ADVISE. STOESEL

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